

Comparisons of Job Characteristics

Focus Occupation: [First-Line Supervisors of Mechanics, Installers, and Repairers \(49-1011\)](#)

Associated Occupation: [Millwrights \(49-9044\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 74

Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)
Associated Occupation: Millwrights (49-9044)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	22.9	19.8	<	Expanded education and/or training may be required
Mathematics	9.2	15.8	13.4	<	Expanded education and/or training may be required
Building and Construction	4.0	11.7	9.3	<	Expanded education and/or training may be required
Design	5.2	11.0	9.1	<	Expanded education and/or training may be required
Physics	4.3	9.7	6.7	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 14

Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)
Associated Occupation: Millwrights (49-9044)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Installation	1.7	13.7	3.4	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	11.9	10.1	<	A higher skill level may be required
Operation Monitoring	6.6	11.6	10.1	<	A higher skill level may be required
Repairing	3.4	11.1	10.0	<	A higher skill level may be required
Troubleshooting	4.5	11.1	10.4	0	Current skill level may be sufficient
Operation and Control	5.4	10.0	8.5	<	A higher skill level may be required
Quality Control Analysis	5.9	9.8	11.6	>	Skill level is likely sufficient

Equipment Selection	3.3	7.6	7.5	0	Current skill level may be sufficient
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 56			
Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011) Associated Occupation: Millwrights (49-9044)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	12.5	9.1	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	12.2	9.0	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	12.0	9.2	<<	Extensive improvement in abilities may be required
Visualization	7.5	12.0	10.4	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.9	7.7	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	11.4	5.3	<<	Extensive improvement in abilities may be required
Trunk Strength	5.7	11.2	6.2	<<	Extensive improvement in abilities may be required
Static Strength	5.0	11.1	6.3	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	9.4	6.5	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	8.8	3.8	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	8.3	5.8	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	8.1	4.5	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.6	4.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 63
Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011) Associated Occupation: Millwrights (49-9044)		
Work Activities	Exclusivity of Activity	
Determine installation, service, or repair needed	58	
Diagnose mechanical problems in machinery or equipment	65	

Read blueprints	10
Read schematics	34
Read specifications	23
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 75

Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)
Associated Occupation: Millwrights (49-9044)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Industry specific software	1
Integrated circuits	18

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.